

PORT_SRC
P=1
ZS=_Z0 Ohm
Signal=Sinusoid
SpecType=Specify freq
SpecBW=Use doc freq span
Sweep=None
Freq=10 GHz
Pwr=-10 dBm
Ang={0} Deg

BPFC
ID=BPF1
LOSS=1.6 dB
N=5
FP1=9.5 GHz
FP2=10.5 GHz
AP=0.02 dB
NOISE=Auto

AMP_B
ID=LNA1
GAIN=15 dB
P1DB=21 dBm
IP3=35 dBm
IP2=
MEASREF=
OPSAT=
NF=1.2 dB
NOISE=Auto
RFIFRQ=

RFATTEN
ID=S1
LOSS=3 dB
NOISE=Auto

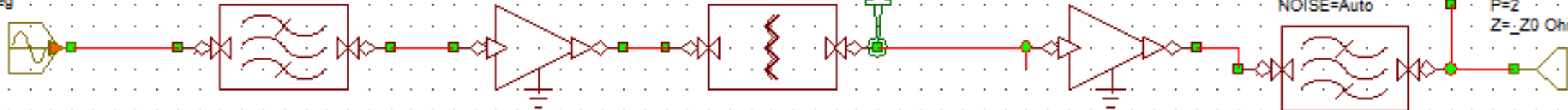
M_PROBE
ID=MP1

AMP_B
ID=LNA2
GAIN=15 dB
P1DB=21 dBm
IP3=35 dBm
IP2=
MEASREF=
OPSAT=
NF=1.2 dB
NOISE=Auto
RFIFRQ=

BPFC
ID=BPF2
LOSS=1.6 dB
N=5
FP1=9.5 GHz
FP2=10.5 GHz
AP=0.02 dB
NOISE=Auto

TP
ID=BPF2

PORT
P=2
Z=_Z0 Ohm



Modify Measurement

Measurement Type: System
Measurement: C_GN, C_GP, C_GT, C_GV, C_HDRM, C_IM2, C_IM3, C_IP2, C_IP3, C_IPHS_NOISE, C_NF, C_NIP

Cascaded Noise Factor/Figure

Simulator: VSS RF Budget Analysis
Configuration: Default

Complex Modifier
☐ Real ☐ Imag. ☐ Mag. ☐ Angle ☐ AngleU
☐ Complex ☐ Conjugate ☒ dB

Block Diagram
Rx Chain

Start Test Point: PORT_1
End Test Point: PORT_2

Type: Operating point, circuit and channel

Frequency Display: Absolute End Point Frequencies

Block Output: Cumulative, Tracked Signal Only

Subcircuits: Collapse Subcircuits

Sweep Freq (FDOC, n=1): Freq = Center frequency

Select Data Set: {Current Result}

Use Vars >> OK Cancel Help Favorite Meas. Help

Modify Measurement

Measurement Type: System
Measurement: C_DAMAGE, C_GA, C_GD, C_GN, C_GP, C_GT, C_GV, C_HDRM, C_IM2, C_IM3, C_IP2, C_IP3

Cascaded Operating Point Transducer Gain

Simulator: VSS RF Budget Analysis
Configuration: Default

Complex Modifier
☐ Real ☐ Imag. ☐ Mag. ☐ Angle ☐ AngleU
☐ Complex ☐ Conjugate ☒ dB

Block Diagram
Rx Chain

Start Test Point: PORT_1
End Test Point: PORT_2

Frequency Display: Absolute End Point Frequencies

Block Output: Cumulative, Tracked Signal Only

Subcircuits: Collapse Subcircuits

Sweep Freq (FDOC, n=1): Freq = Center frequency

Select Data Set: {Current Result}

Use Vars >> OK Cancel Help Favorite Meas. Help

Modify Measurement

Measurement Type

System

BER

CDMA

Eye Diagram

GSM/EDGE

NW Analyzer

Noise

Power

RF Budget Analysis

Measurement

Search...

C_GP

C_GT

C_GV

C_HDRM

C_IM2

C_IM3

C_IP2

C_IP3

C_IPHS_NOISE

C_NF

C_P1dB

C_PHS_NOISE

Cascaded P1dB

Simulator

VSS RF Budget Analysis

Configuration

Default

Complex Modifier

☐ Real

☐ Imag.

☐ Mag.

☐ Angle

☐ AngleU

☐ Complex

☐ Conjugate

☒ dB

Block Diagram

Rx Chain

Start Test Point

PORT_1

End Test Point

PORT_2

P1dB Type

Input P1dB, Power, @Output Port

Frequency Display

Absolute End Point Frequencies

Block Output

Cumulative

Subcircuits

Collapse Subcircuits

Sweep Freq (FDOC, n=1)

Freq = Center frequency

Select Data Set

{Current Result}

Use Vars >>

OK

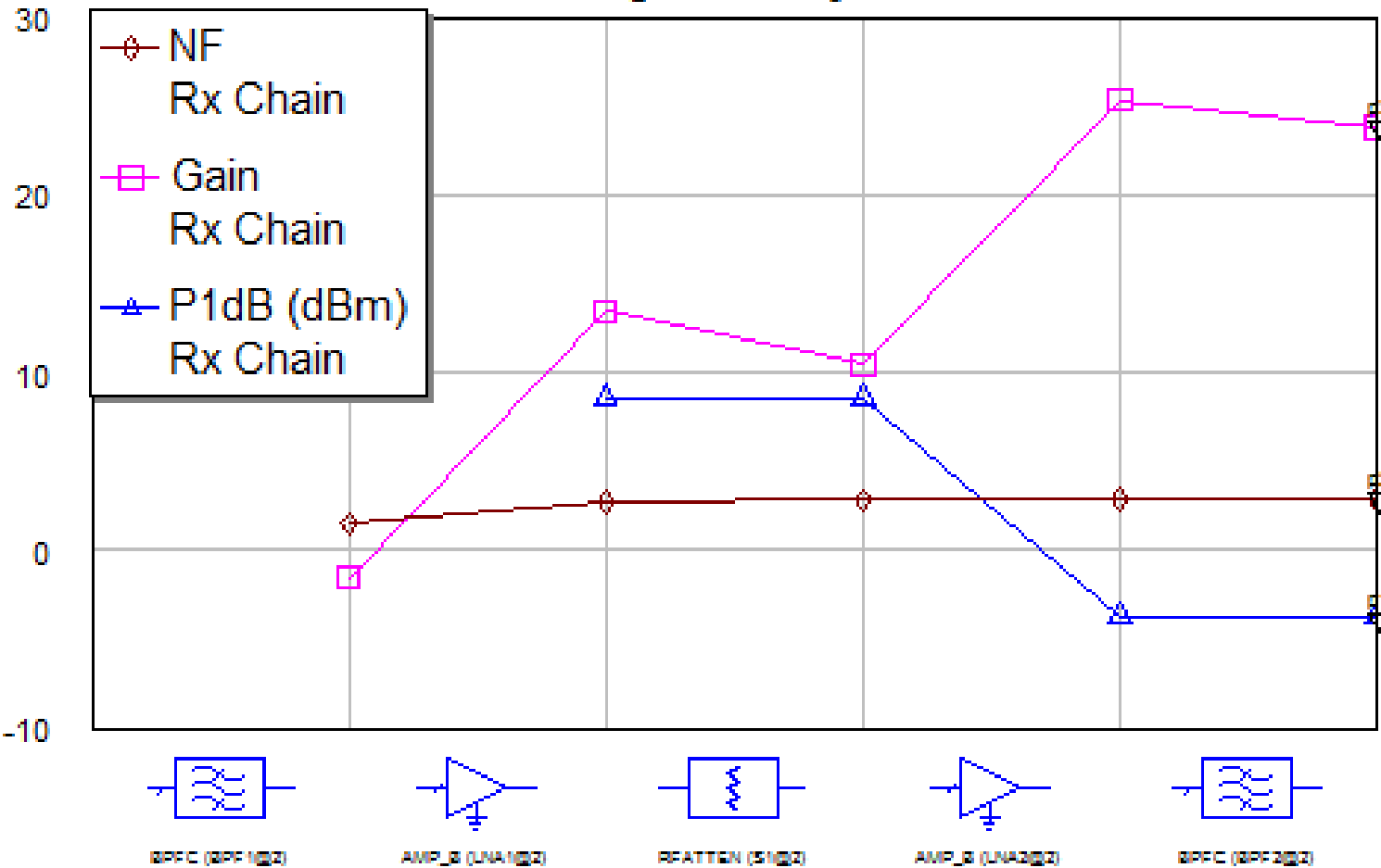
Cancel

Help

Favorite

Meas. Help

RF Budget Vs components



Modify Measurement

Measurement Type

BER

CDMA

Eye Diagram

GSM/EDGE

NW Analyzer

Noise

Power

RF Budget Analysis

RF Inspector

Measurement

Search...

RFI_CTLVAL

RFI_I_SPEC

RFI_PWR_BAND

RFI_PWR_SPEC

RFI_V_SPEC

RFI Power Spectrum

Simulator

VSS RF Inspector

Configuration

Default

Complex Modifier

☐ Real

☐ Imag.

☒ Mag.

☐ Angle

☐ AngleU

☐ Complex

☐ Conjugate

☒ dBm

Block Diagram

Rx Chain

Test Point To Analyze

M_PROBE.MP1

Test Point Identifying Signal

PORT_1

Components to Display

☒ Full spectrum

☐ Signal only

☐ Distortion

☐ Interference

Frequency Range to Display

All frequencies

Lower Frequency

Upper Frequency

0

0

Select Data Set

{Current Result}

Show Secondary

Use Vars >>

OK

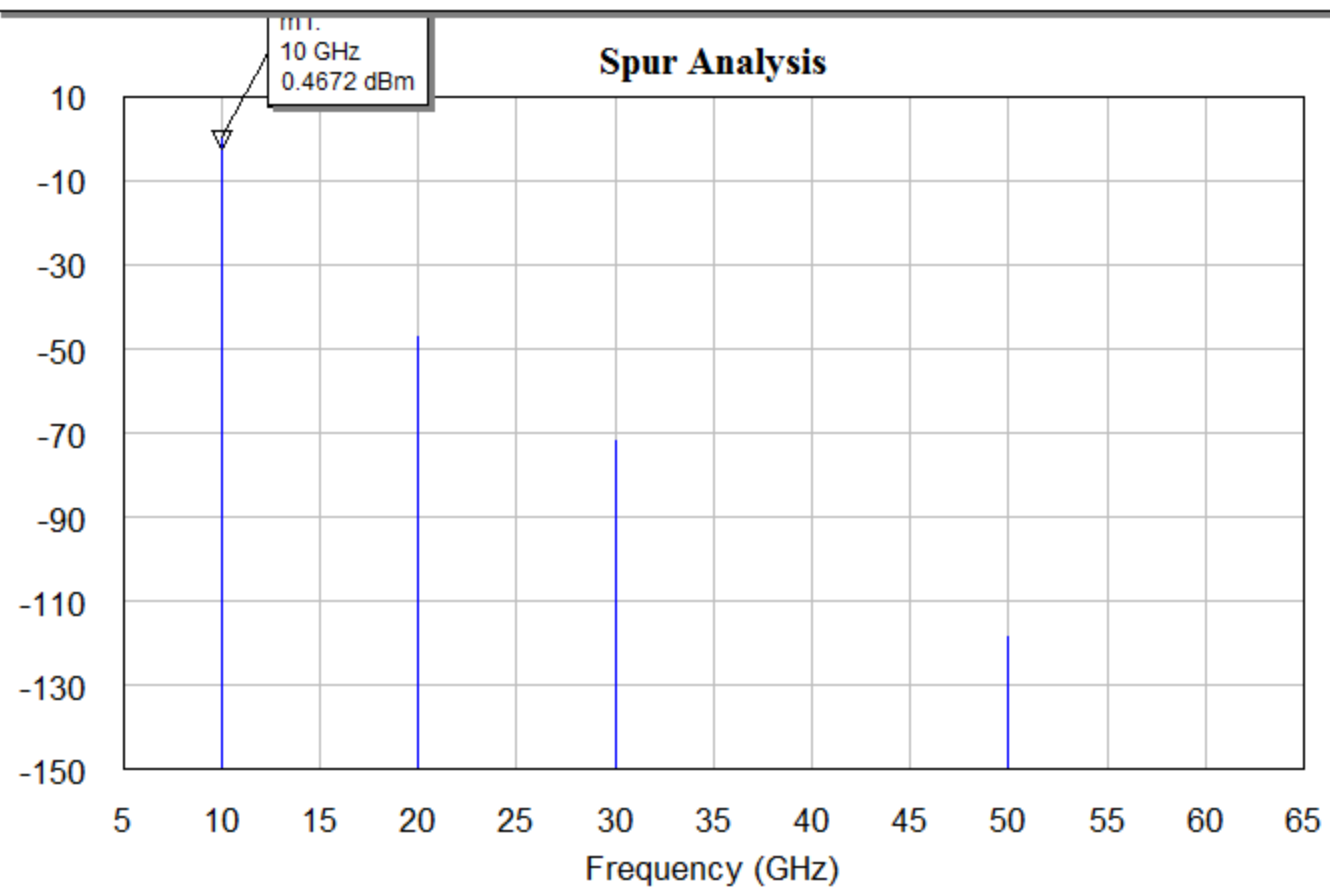
Cancel

Help

Favorite

Meas. Help

— DB(|RFI_PWR_SPEC(M_PROBE.MP1,PORT_1,1,0,0,0,0)|) (dBm)
Rx Chain



PORT_SRC

P=1

ZS=_Z0 Ohm.

Signal=Sinusoid

SpecType=Use doc freq

SpecBW=Use doc freq span.

Sweep=None.

Pwr={0}. dBm.

Ang={0}. Deg.

SUBCKT

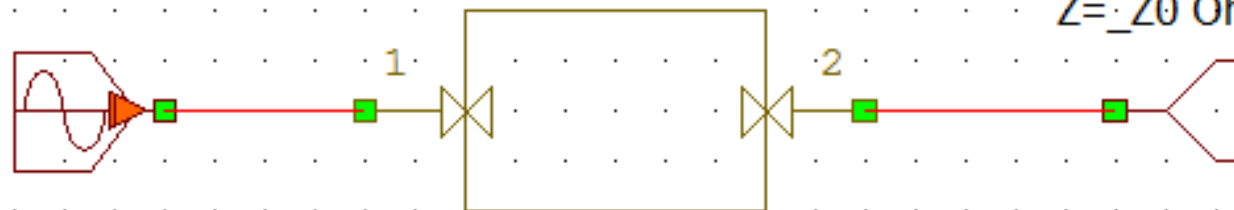
ID=S1

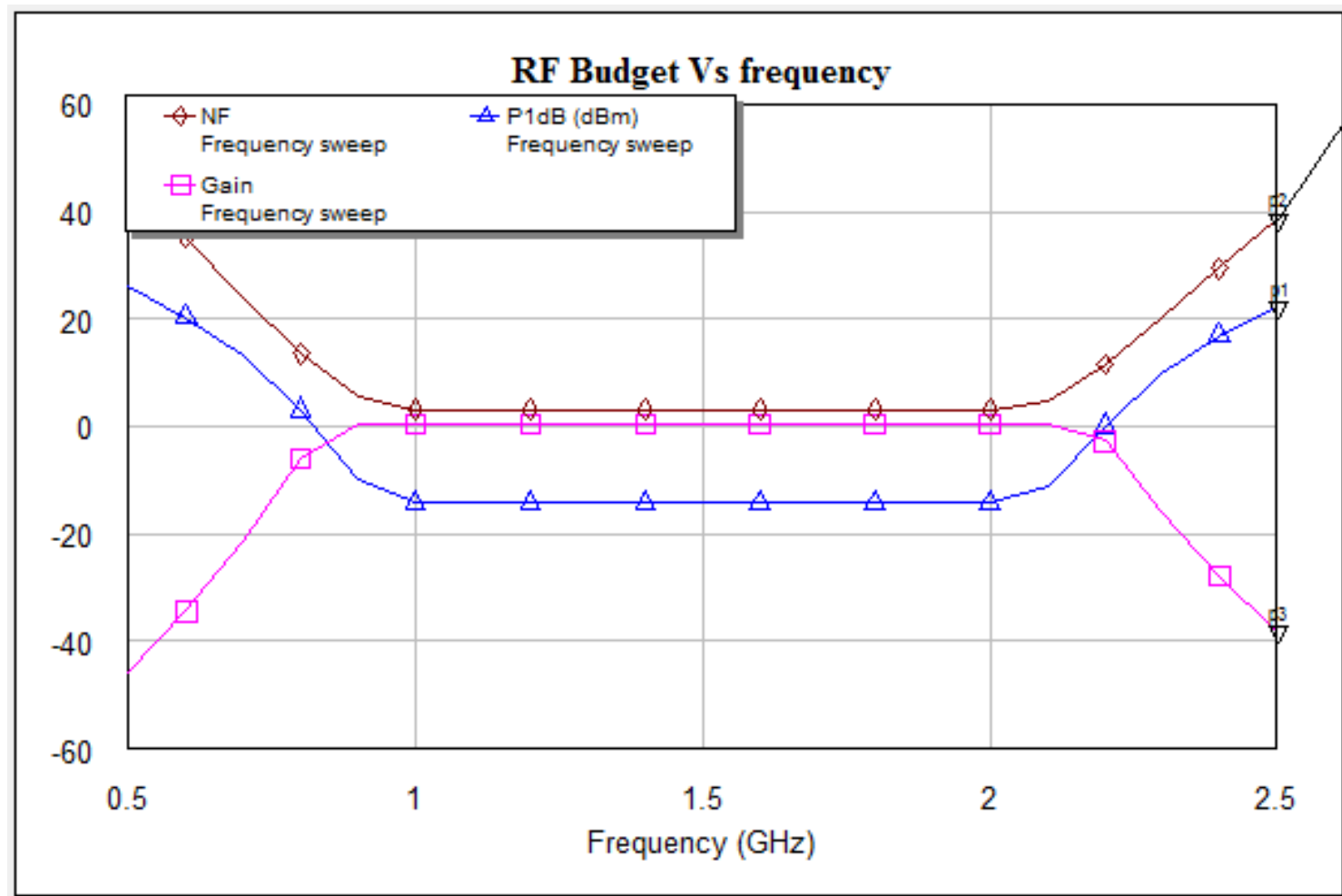
NET="Rx Chain".

PORT

P=2

Z=_Z0 Ohm





PORT_SRC

P=1

ZS=_Z0 Ohm

Signal=Sinusoid

SpecType=Specify freq

SpecBW=Use doc freq span

Sweep=Linear

Freq=10 GHz

PStart=-20 dBm

PStop=0 dBm

PStep=1 dB

Ang={0} Deg

SUBCKT

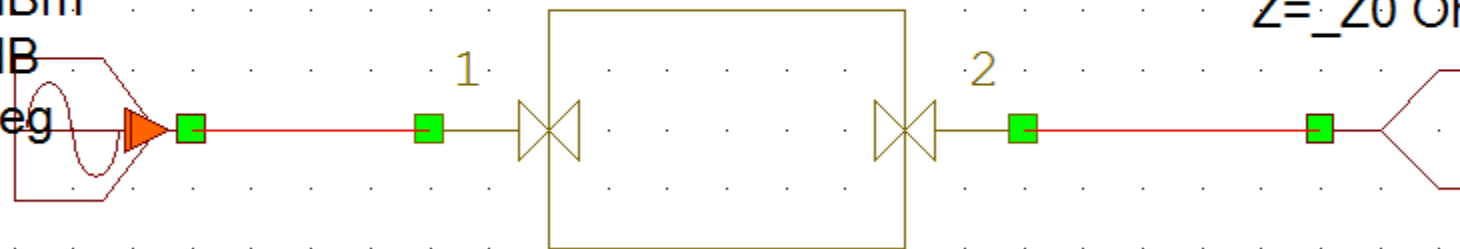
ID=S1

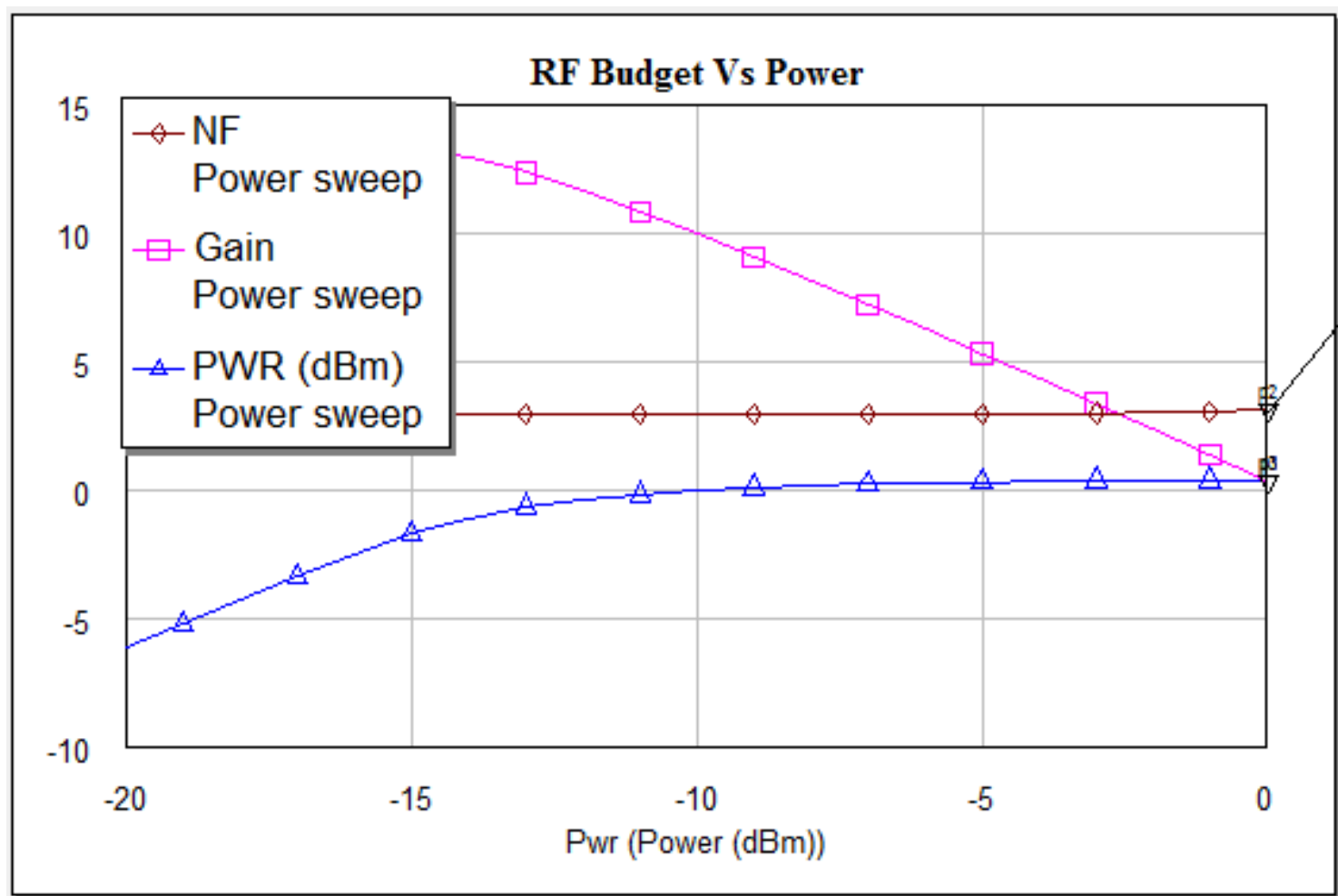
NET="Rx Chain"

PORT

P=2

Z=_Z0 Ohm





TONE

ID=A1

FRQ={9.9,10.1} GHz

PWR={-10,-15} dBm

PHS=0 Deg

CTRFRQ=

SMPFRQ=

ZS=_Z0 Ohm

TN=_TAMB DegK

NOISE=Auto

PNMASK=

PNOISE=No phase noise

TP

ID=Two_tone

SUBCKT

ID=S1

NET="Rx Chain"

PORT

P=1

Z=_Z0 Ohm

